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## **CLAIMS**

1.	Process for the preparation of a thermoplastic elastomer by melt mixing		
	a. a	partially vulcanized rubber concentrate	
	b. a	thermoplastic polymer and/or additives	
	c. o	pptionally oil and	
	d. a	curing agent.	
2.	Proces	Process according to claim 1 characterized in that the melt mixing is carried	
	out in a	out in a twin-screw extruder.	
3.	Proces	s according to claim 1 characterized in that the melt mixing is carried	
	out in a	a single screw extruder.	
4.	Proces	s according to any one of the claims 1-3 characterized in that the	
	partiall	partially vulcanized rubber concentrate (a) is prepared by melt mixing:	
	e. a	it least one elastomer and optionally oil	
	f. a	t least one thermoplastic polymer	
	g. a	curing agent.	
5.	Proces	Process according to claim 4 characterized in that the partially vulcanized	
	rubber	concentrate is prepared by melt mixing	
	e. 3	0 to 95 parts by weight of the elastomer(s) and 0-70 parts by	
	W	veight of oil	
	f. 5	to 50 parts by weight of the thermoplastic polymer(s)	
	g. 0	,1-10 parts by weight of the curing agent	
	whereb	whereby the sum of the parts by weight of the elastomer(s), the thermoplastic	
	polyme	polymer(s), curing agent and oil is 100.	
6.	Proces	Process according to any one of claims 4-5 characterized in that the elastomer	
	is EPDM or EPM.		
7.	Proces	s according to claim 1-6 characterized in that the thermoplastic polymer	
	is chos	en from thermoplastic polyolefin homo- and copolymers, reactor TPO,	
	polyam	nides, polycarbonate, polyesters, polysulfones, polylactones,	

8. Process according to claim 7 characterized in that the thermoplastic polymer is a thermoplastic polyolefin homo- and copolymer.

(PPO), polyphenylene sulfide (PPS), styrene-acrylonitrile (SAN) resins, polyimides, styrene maleic anhydride (SMA) and aromatic polyketones.

polyacetals, acrylonitrile-butadiene-styrene (ABS) resins, polyphenylene oxide

9. Process according to claim 8 characterized in that the thermoplastic polymer

is a polypropylene homopolymer.

- 10. Process according to any one of claims 1-9 characterized in that the elastomer in the partially vulcanized rubber concentrate has a gel content higher than 50%.
- 5 11. Process according to any one of claims 1-10 characterized in that the elastomer in the partially vulcanized rubber concentrate has a gel content higher than 70%.
  - 12. Process for the preparation of a thermoplastic elastomer according to claims
    1-11 by melt mixing:
- 10 a. 10-90 parts by weight of the partially vulcanized rubber concentrate
  - 90-10 parts by weight of a the thermoplastic polymer and/or additives
  - c. 0-30 parts by weight of oil

agent is 100.

- d. 0,1-10 parts by weight of the curing agent
   whereby the sum of the parts by weight of the partially vulcanized rubber
   concentrate, the thermoplastic polymer and/or additives, the oil and the curing
- 13. Process according to any one of claims 1-12 characterized in that the curing agent is chosen from phenol resins, siloxanes or peroxides.

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